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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/716,967	11/19/2003	Maria Adamczyk	9400-48	7546	
	·	D. A	EXAM	INER	
10/716,967 11/19/2003 Maria	P.A.	BATES, KEVIN T			
RALEIGH, NC	27627	•	ART UNIT PAPER NUMBER		
		•	2153		
	•				
			MAIL DATE	DELIVERY MODE	
			02/06/2008	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

•v	Application No.	Applicant(s)	_ ·
	10/716,967	ADAMCZYK ET AL.	
Office Action Summary	Examiner	Art Unit	
	Kevin Bates	2153	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence addi	ess
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFF after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNI R 1.136(a). In no event, however, may a i. riod will apply and will expire SIX (6) MON atute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this com BANDONED (35 U.S.C. § 133).	·
Status			
1) Responsive to communication(s) filed on 2	0 December 2007.	·	
<u> </u>	This action is non-final.		
3) Since this application is in condition for allo		ters, prosecution as to the r	nerits is
closed in accordance with the practice und	·	•	
Disposition of Claims			
4)⊠ Claim(s) <u>1,3-10,12-18,20-26 and 28-33</u> is/a	are pending in the application		
4a) Of the above claim(s) is/are with		,	
5) Claim(s) is/are allowed.			
6) Claim(s) <u>1, 3-10, 12-18, 20-26, and 28-33</u>	is/are rejected.		
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exan	niner		
10) The drawing(s) filed on is/are: a)		by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			t 1.121(d).
11) The oath or declaration is objected to by the	•	•	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore	sian priority under 35 H.S.C. 8	$5.119(a)_{-}(d)$ or (f)	
a) ☐ All b) ☐ Some * c) ☐ None of:	agir priority under 33 o.o.o.	y 113(a)-(a) of (i).	
1. ☐ Certified copies of the priority docum	ents have been received		
2. Certified copies of the priority docum		application No.	
3. Copies of the certified copies of the			tage
application from the International But			
* See the attached detailed Office action for a		received.	,
		·	
•			
Attachment(s)			
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview S	Summary (PTO-413)	
 2) Notice of References Cited (P10-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s)/Mail Date	
3) Information Disclosure Statement(s) (PTO/SB/08)		nformal Patent Application	
Paper No(s)/Mail Date	6)	··	

Response to Amendment

This Office Action is in response to a communication made on December 20, 2007.

Claims 2, 11, 19, and 27 have been cancelled.

Claims 1, 3, 6, 10, 12, 15, 18, 20, 23, 26, 28, and 31 have been amended.

Claims 1, 3-10, 12-18, 20-26, and 28-33 are pending in this application.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-5, 9-14, 18-22, and 26-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over DSL Forum WT-081 Revision 8 (Applicant's IDS) in view of Freed (7073055).

Regarding claims 1, 10, 18, and 26, the DSL Forum teaches a method of managing Quality of Service (QoS) and/or bandwidth allocation in a Regional/Access Network (RAN) having a broadband access server (BRAS) (Page 20, Figure 20) that provides end-to-end transport between a Network Service Provider (NSP) and/or an Application Service Provider (ASP) (Page 28, Figure 19), and a Customer Premises Network (CPN) that includes a Routing Gateway (RG) (Page 21, Figure 14) wherein the

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RAN comprises a digital subscriber link (DSL) network (Page 32, Figure 21); wherein the DSL network further includes a Network Interface Protocol Handler, a DSL Service Manager, and a DSL Session Data Store; and wherein receiving a service session request from the NSP and/or the ASP comprises receiving the service session request at the Network Interface Protocol Handler (Page 32, under the characteristics section, it teaches that the BRAS receives communications from the service providers, manages QoS, and stores profiles in the policy repository).

The DSL Forum does not explicitly indicate receiving at the RAN, a service session request from the NSP and/or the ASP including a request to establish or terminate a communication session, the NSP and/or ASP being associated with a service provider record;

authenticating the NSP and/or the ASP based on information contained in the service provider record to provide an authentication result or a termination result; and transmitting from the RAN, the authentication result or the termination result to the NSP and/or ASP.

Freed teaches a Service network (Abstract) that includes a DSL connection (Column 7, lines 12 – 14) which teaches receiving at the RAN, a service session request from the service provider including a request to establish or terminate a communication session (Column 13, lines 49 – 53), the service provider being associated with a service provider record (Column 13, lines 22 – 26);

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authenticating the service provider based on information contained in the service provider record to provide an authentication result or a termination result (Column 13, lines 55 – 59); and

transmitting from the RAN, the authentication result or the termination result to the service provider (Column 14, lines 9 – 14).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Freed's teaching of using the service provider's to set up communication sessions in the DSL Forum's network in order to allow the service provider to set up the necessary resources for the customer premises network.

Regarding claims 3, 12, 20, and 28, DSL forum teaches the method of claims 1, 10, 18, and 26.

The DSL Forum does not explicitly indicate wherein the service session request comprises an establish service session request and wherein authenticating further comprises: forwarding from the Protocol Handler, the establish service session request to the to the DSL service manager; querying from the DSL service manager, the DSL Session Data Store to obtain the service provider record based on a service provider identifier; validating at the DSL service manager, service provider credentials in the obtained service provider record; and generating the authentication result responsive to the validation of the service provider credentials.

Freed teaches that the RADIUS server receives the service provider requests, manages those requests, queries the session profiles, validates the request and generates the results (Column 13, line 49 – Column 14, line 14).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Freed's teaching of how to handle the service provider request at the server in the DSL Forum in order allow the server to validate the request before allocating the requested resources.

Regarding claims 4, 13, 21, and 29, the DSL Forum teaches the method of claims 3, 12, 20, and 28.

DSL forum does not explicitly indicate wherein transmitting the authentication result further comprises: transmitting from the Protocol Handler, a valid authorization code to the NSP and/or the ASP if the service provider credentials are validated at the DSL service manager; and transmitting from the Protocol Handler, an invalid authorization code to the NSP and/or the ASP if the service provider credentials are not validated at the DSL service manager.

Freed teaches transmitting from the Protocol Handler, a valid authorization code to the NSP and/or the ASP if the service provider credentials are validated at the DSL service manager; and transmitting from the Protocol Handler, an invalid authorization code to the NSP and/or the ASP if the service provider credentials are not validated at the DSL service manager (Column 14, lines 8 – 17).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Freed's teaching of how to handle the service provider request at the server in the DSL Forum in order allow the server to validate the request before allocating the requested resources.

Regarding claims 5, 14, 22, and 30, The DSL forum teaches the method of claim 4.

The DSL forum does not explicitly indicate wherein the authentication result is included in a establish service session response from the RAN to the NSP and/or the ASP and wherein the establish service session response is transmitted from the Protocol Handler to the NSP and/or the ASP.

Freed teaches that the authentication result is included in a establish service session response from the RAN to the NSP and/or the ASP and wherein the establish service session response is transmitted from the Protocol Handler to the NSP and/or the ASP (Column 14, lines 8-17).

Regarding claim 9, The DSL Forum teaches the method of claim 1 wherein the service provider record comprises a service provider record maintained at the NSP that identifies the NSP, a service provider record maintained at the ASP that identifies the ASP and/or corresponding service provider records maintained at the RAN that identify the NSP and/or the ASP (Page 32, under the characteristics section).

Claims 6-8, 15-17, 23-25, and 31-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over The DSL Forum in view of Freed, and further in view of Zhang (6792457).

Regarding claims 6, 15, 23, and 31, The DSL forum teaches the method of claims 2, 11, 19, and 25.

The DSL forum and the reference, Freed only discloses that the requests being authenticated by the Radius servers are for initiating sessions.

Zhang teaches the system of using requests from the service provider for both requesting sessions and closing sessions that are active (Column 6, lines 20 - 30; Column 7, lines 6 - 20; Column 8, lines 31 - 40).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Zhang's teaching in the DSL forum network in order to ensure that the open sessions are closed and the resources can get reallocated.

Regarding claims 7, 16, 24, and 32, The DSL Forum teaches the method of claims 6, 15, 23, and 31.

The DSL Forum does not explicitly indicate releasing session resources associated with the terminated communication session.

Zhang teaches releasing session resources associated with the terminated communication session (Column 7, lines 1-20).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Zhang's teaching in the DSL forum network in order to ensure that the open sessions are closed and the resources can get reallocated.

Regarding claims 8, 17, 25, and 33, The DSL forum teaches the method of claims 6, 15, 23, and 31.

The DSL Forum does not explicitly indicate wherein transmitting the termination result comprises transmitting a terminate service session response from the Protocol Handler to the NSP and/or the ASP.

Freed teaches that the Radius server sends the response to the service provider for requests issued (Column 14, lines 9 - 14).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use Freed's teaching of using the service provider's to set up communication sessions in the DSL Forum's network in order to allow the service provider to set up the necessary resources for the customer premises network.

Response to Arguments

Applicant's arguments filed December 20, 2007 have been fully considered but they are not persuasive.

Regarding claim 1, the applicant argues that the combination of the DSL Forum and Freed does not teach authenticating the NSP and/or ASP based on the information contained in the service provider record or transmitting from the RAN the authentication result or termination result to the NSP and/or ASP.

The examiner disagrees, the DSL Forum teaches a DSL system that includes network configuration as described in the claim (Figure 20, Figure 14, Figure 19, and Figure 21). The DSL Forum as teaches that the BRAS contains service records and receives session requests from the service providers. The DSL Forum is only lacking detailed information about how session requests are requested from the service providers to the policy enforcement points (BRAS) to create service requests.

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Freed teaches a network system that can include both embodiments of DSL and cable network connections. As part of Freed's disclosure is the method of the service provider requesting from the policy enforcement point a service request (Column 13,lines 49 – 53). In the rejection, Freed is only being relied upon to teach a method of service providers creating the sessions in the network through the request, the authentication, and the transmitted result steps as shown in the claim limitation. One of ordinary skill in the art at the time the invention was made would understand that service sessions can be made in the DSL Forum's system to allow the service providers in the DSL Forum's system (the NSP and ASP) to request services in the same process.

Regarding claim 1, the applicant argues that the combination does not teach the request for termination requests of session information. Claim 1 recites "a request to establish or terminate a communication session" and throughout the claim always stipulates an authentication or termination request and result. Because of the presence of the ors in the claim, it creates alternative language so as long as the art reads on either authentication or termination it meets the limitations of the claim.

Regarding claim 1, the applicant argues that the references, DSL forum and Freed teach away from each other and cannot be combined. The examiner disagrees, both references are concerned with providing service sessions in a network. Both networks include service providers and policy enforcement points. While a DSL network may not be the preferred embodiment of the Freed reference, it does not discount the benefits taught in Freed from being employed in a DSL network.

Regarding claim 3, the applicant argues that Freed once again teaches away from a DSL network. As stated above, there is no express teaching in Freed that teaches that its session creation and authentication improvements cannot be employed in a DSL network such as one taught in the DSL Forum.

Regarding claim 6, the applicant argues that Zhang does not recite the components of the DSL system involved in the termination of service sessions. The examiner disagrees, Zhang is not being relied upon to teach the exact components described in the claim. DSL forum provides the teaching of the DSL network recited in the claim. Zhang is being relied on to teach that a service provider is responsible for both the creation and termination of service sessions (Column 7, lines 20 – 30; Column 8, lines 31 – 40). Zhang's teaching along with DSL forum and Freed teach the communication method of how service providers make requests from the policy enforcement devices in the network. Those request can be to create or terminate service sessions.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Bates whose telephone number is (571) 272-3980. The examiner can normally be reached on 9 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Glen Burgess can be reached on (571) 272-3949. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

02 T Bt

Kevin Bates February 2, 2008

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